

**METHOD OF ACTIVATING AN IMMUNE RESPONSE  
BY ADMINISTRATION OF ISOTHIOCYANATE BASED AGENT**

**ABSTRACT**

5           The present invention is directed to a method of activating or augmenting an immune system of a mammal. The method comprises the step of administering a isothiocyanate (ITC) based agent, such as, N-acetylcysteine conjugate of phenethyl isothiocyanate (PEITC-NAC) or phenethyl isothiocyanate (PEITC), to a mammal in an amount sufficient to activate or augment the immune response in the mammal. The invention is further directed to a method of activating  
10 an antigen-specific immune response by administering to a subject an ITC based agent to in an amount sufficient to activate or augment the response of a B cell system or innate immunity to an antigen.